No.



200200263

HHE UNIMED SHAVES OF AVIERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

NDSH Research Youndation

Moccous, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN CODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY ATTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A OFF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF ATTS (8+STAT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Nornatto'

In Testimonn Mercess, I have hereunto set my hand and caused the seal of the Slant Bariets Aratestion Office to be affixed at the City of Washington, D.C. this tenth day of April, in the year two thousand three.

Panghe

Commissioner

Plant Variety Frotection Office Agricultural Marketing Service andreman

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECT (Instructions and information collection burden state	TION CERTIFIC ment on reverse	CATE (7 U.S.C. 2421).	unied in order to determine ir a p information is held confidential	plant variety protection certificate is to be issued until certificate is issued (7 U.S.C. 2426).		
1. NAME OF OWNER		TEMPORARY DESIGNAT EXPERIMENTAL NAME	TION OR 3. VARIETY NAME			
NDSU Research Foundation			ND97-1120	Nornatto		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, et		5. TELEPHONE (include are	ea code) FOR OFFICIAL USE ONLY			
1735 NDSU Research Park Drive PO Box 5002			(701) 231–89	PVPO NUMBER		
Fargo, ND 58105-5002			6. FAX (include area code)	20020026		
			(701) 231–66			
			(701) 231-88	FILING DATE		
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) 501. (C) 3		proporated give of incorporation hakota	9. DATE OF INCORPORATION May, 1989	9/11/2002		
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE	E IN THIS APPLICAT	IGN. (First person listed will n	eceive all papers)	FILING AND EXAMINATION FEES:		
Theodore C. Helms		Dale Zetocha		\$ 2,705.00		
Dept. of Plant Sciences North Dakota State University		Executive Di	irector ch Foundation	S R DATE 9/11/2002		
Fargo, ND 58105-5051			esearch Park D			
	4	PO Box 5002	59105 5000	\$ 432.00		
		Fargo, ND	58105-5002	DATE 4/4/2007		
11. TELEPHONE (Include area code) 12. FAX (Include area code)	* .	13. E-MAIL		14. CROP KIND (Common Name)		
(701) 231-8136 (701) 231-84	474	ted.helms@nds dzetocha@ndsu	helms@ndsu.nodak.edu ocha@ndsuext.nodak.edu soybean			
15. GENUS AND SPECIES NAME OF CROP		16. FAMILY NAME (Botanic	HYBRID?			
Glycine max		Leguminasae		☐ YES 🔣 NO		
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED reverse)	(Follow instructions o	<u></u>	19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act			
a. Exhibit A. Origin and Breeding History of the Variety b. EX Exhibit B. Statement of Distinctness	•	<u></u>	YES (If "yes", answer items 20 NO (If "no", go to item 22) 20. DOES THE OWNER SPECIFY THAT SEED OF THIS YES NO VARIETY BE LIMITED AS TO NUMBER OF CLASSES?			
c.	4					
e. Exhibit E. Statement of the Basis of the Owner's Ownership			CH CLASSES? 🔼 FOUND.	ATION X REGISTERED A CERTIFIED		
f. Voucher Sample (2,500 viable untreated seeds or, for tuber prediction that tissue culture will be deposited and maintained repository)	ropagated varieties, d in an approved publ	ic 21. DOES THE C VARIETY BE	21. DOES THE OWNER SPECIFY THAT SEED OF THIS VES NO VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? YES NO IF YES, SPECIFY THE FOUNDATION REGISTERED CERTIFIED NUMBER 1,2,3, etc.			
g. Filing and Examination Fee (\$2,705), made payable to "Treast States" (Mail to the Plant Variety Protection Office)	urer of the United	IF YES, SPE				
· · · · · · · · · · · · · · · · · · ·			explanation is necessary, please	use the space indicated on the reverse.)		
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OTHER COUNTRIES?	HYBRID PRODUCE OR USED IN THE U.	S. OR 23. IS THE VARI	ETY OR ANY COMPONENT OF RIGHT (PLANT BREEDER'S RIC	THE VARIETY PROTECTED BY INTELLECTUAL SHT OR PATENT!?		
¥ YES □ NO			res	™ NO		
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITI FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use spa	ION, TRANSFER, OF ce indicated on rever	R USE IF YES, PLEA se.) REFERENCE	SE GIVE COUNTRY, DATE OF NUMBER. (Please use space in	FILING OR ISSUANCE AND ASSIGNED ndicated on reverse.)		
24. The owners declare that a viable sample of basic seed of the variety will to for a tuber propagated variety a tissue culture will be deposited in a public.						
The undersigned owner(s) is(are) the owner of this sexually reproduced or and is entitled to protection under the provisions of Section 42 of the Plan Owner(s) is(are) informed that false representation herein can jeopardize			at the variety is new, distinct, unif	form, and stable as required in Section 42,		
SIGNATURE OF OWNER Setocha		SIGNATURE OF (OWNER			
NAME (Please print or type)		NAME (Please pri	nt or type)			
DALE ZETOCHA						
CAPACITY OR TITLE EXECUTIVE Director	9/0/-	CAPACITY OR TI	TLE .	DATE		
NDSU Research Foundation 8T-470 (07-01) designed by the Plant Variety Protection Office with WordPerfe	1 / 1 / 0 2 ct 9.0. Replaces STI	0-470 (04-01) which is obsole	te. (See reverse for instr.	uctions and information collection burden statement)		

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b, Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

First sold as Foundation Seed April 2, 2002 in the U.S.

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filling a change of address. The fee for filling a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a compleint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (07-01) designed by the Plant Variety Protection Office with WordPerfect 9.0. Replaces STD-470 (04-01) which is obsolete.

Exhibit A

Origin and Breeding History of the Cultivar Nornatto

Nornatto, tested as ND no., 97-1120, was derived from the cross Danatto/M87-948 that was made in 1994. M87-948 is an experimental line developed by the University of Minnesota, St. Paul, MN that was never released as a named cultivar. The pedigree of M87-948 is Chico/PI 437296. The cross was made in the summer of 1994 at Casselton, ND. The F_1 plant was grown in the 1994-1995 Chile, S.A. winter nursery. The F_2 seed was grown in the summer of 1995 and advanced to the F₃ generation by the single-pod bulk method. The F₃ population was grown in the 1995-1996 Chile winter nursery. F₄ plants from the segregating population were grown in the summer nursery located at Fargo, ND in 1996 and threshed in the fall of 1996. F_{4.5} plantrows were evaluated and selected in the 1997 Casselton, ND nursery. ND97-1120 was first tested in replicated yield trials in 1998. Individual F_{4.7} plants were threshed in the fall of 1999 and 88 single plant selections were evaluated for uniformity in the summer of 2000 at Casselton and Fargo, ND nurseries. Of the 88 purification rows that were evaluated, 14 were discarded and the remaining 74 rows were individually harvested and bulked after selection for hilum color, plant maturity, flower color, plant height, seed size, pubescence color, seed coat luster and color, and pod color. Breeder seed of ND97-1120 was increased in the 2000-2001 Chile winter nursery. In the summer of 2001 the Foundation seed of ND97-1120 was increased at Casselton and Carrington, ND. Nornatto was released January 17, 2002 as an F10 generation pure line soybean cultivar. Nornatto has been observed over a period of two years to be uniform and stable. Variants in 2001 and 2002 include: 5 plants per 10,000 that have grey pubescence, brown pods, and grey hila; 5 plants per 10,000 that have tawny pubescence brown pods, and imperfect black hila; 5 plants per 10,000 that have tawny pubescence, brown pods, and grey hila.

Exhibit B

Novelty Statement

- 1. Nornatto was developed primarily for increased yield, improved lodging resistance, suitable maturity and special characteristics that make this small-seeded cultivar acceptable for the the natto and sprout specialty human food markets.
- 2. Danatto is the most similar cultivar to Nornatto. Nornatto differs from Danatto at SSR loci satt 367, satt 373, and satt 408.

FAX NO. 16056978507

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Biogenetic Services, Inc. 3/10/03

200200263

Summary of Observed Genotypes

	Primer	Nomatto	Nannonatto	Danatto
	satt 009	22, 23, 33	22	11, 22
	satt 038	11	22	22
	satt 114	11_	11	11
	satt 147	22	22	્ર11 **
	satt 157	22	22	11, 22, 33, 44
	satt 177	22	22, 33	11, 22
	satt 191	11	11	11
	satt 228	11	11	11
3	satt 242	11	22	11
ı	satt 243	11	11	11
지	sett 291	11	22	* 11
I	satt 294	11	11	11
	satt 302	11	11	11
X	satt 367	33	11	11, 22
시	satt 373	11	22	22
	satt 384	11	11	11
	satt 385	22	11	11
시	satt 408	11	22	22
	satt 414	11	11	11
I	satt 420	41	22	12, 22
	satt 534	11	11	11

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REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0583-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is entirested to average 30 minutes per response, including the time for reviewing instructions, searching data sources, gathering and maintaining the data needed, and completing and reviewing the validation of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, result original, and marical or family status. (Not all prohibited been apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotope, etc.) should contact the USDA's TARGET Corner at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or wall (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF A PRINCIPLE O	
NAME OF APPLICANT(S) NDSU Research Foundation	
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	PVPO NUMBER
PO Box 5014	200200263
Fargo, ND 58105-5014	VARIETY NAME
	Nornatto
	TEMPORARY OR EXPERIMENTAL
	DESIGNATION (impersant if one exists)
DI FLOS DELD LEE INCOMPLETATION	ND97-1120
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the vibelow.	arictal character of this variety in the boxes
Place a zero in the first box (e.g. 9 9 9 or 0 9) when number is either 99 or les	es or 9 or less respectively. Data for
plant characters should be based on a minimum of 100 plants. Comparative data should be determined fro	
Harticultural Society or any recognized color standard may be used to determine plant colors; designate sys	tom used;
Please answer all questions for your variety; lack of response may delay progress of your application.	
A. MORPHOLOGY	
Seed Shape:	
2 = Spherical 2 = Spherical-Flattened (L/W, L/T, and T/W ratios < 1.2) (L/W ratio > 1.2; L/T ratio < 1.2))
3 = Elongate (L/T ratio > 1.2; T/W ratio < 1.2) 4 = Elongate-Flattened (L/T ratio > 1.2; T/W ratio > 1.2)	
Seed Coat Color:	
1 1 = Yellow 2 = Green 3 = Brown 4 = Black	5 = Other (<i>Please Specify</i>)
Seed Coat Luster:	•
1 = Dull 2 = Shiny	
Seed Size:	
1 0 grams/100 seeds Hilum Color:	
	·
2 1 = Buff 2 = Yellow 3 = Brown 4 = Gray 6 = Black 7 = Other (Please Specify)	5 = Imperfect Black

A. N	IORPHOLOGY (Con	tinue			
Cotyl	edon Color:				
	1 = Yellow 2 =	= Green			
Seed 1	Protein Peroxidase Act	tivity:			
1	$1 = Low \qquad 2 = Hig$, h			
Нурос	cotyl Color:				
4	1 = Green ('Evans' or 'Davis')	2 = Green with Bronze Bands below Cotyledon ('Woodworth' or 'Tracy')	3 = Light Purple 4 below Cotyledons ('Beeson' or 'Pickett 71')		xtending to aves ('Hodgson', ampton 266A')
Leafle	t Shape:				
2	1 = Lanceolate	2 = Oval 3 = Ovate	4 = Other (Please Speci	<i>ify</i>)	
Flower	r Color:				
2	1 = White	2 = Purple 3 = White	with a Purple Throat		
Pod Co	olor:				
1	1 = Tan 2 =	Brown 3 = Black			
Pubesc	ence Color:				
	1 = Gray	2 = Brown (Tawny) 3 =	Light Tawny		
Plant E	labit:				
3	1 = Determinate	2 = Semi - Determinate	3 = Indeterminate 4 =	= Intermediate	
Maturi	ty Group:				
	1 = 000	2 = 00	3=0	4 = I	5=II
0	6 = III 11 = VIII	7 = IV 12 = IX	8 = V 13 = X	9 = VI	
Maturit	ty Subgroup:				13-21
4	Please enter a value f	rom 0 - 9			
B. DIS	EASE REACTIONS	0 = Not Test	ted 1 = Susceptible	2 = Resistant	3 = Tolerant
Bacteria	il				
0	Bacterial Pustule (Xa.	nthomonas campestris pv. gly	cines (Nakano) Dve)		
			(((((((((((((((((((
Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)					
0	Wildfire Blight (Pseud	domonas syringae pv. tabaci (Wolf & Foster) Young, Dye,	& Wilkie)	

B.	DISEASE REACTIONS (Continued)	0 = Not Tested	1	= Susceptible 2 =	= Resistant 3 = Tolerant
Fun	gal				
	Brown Spot (Septoria glycines He	mmi)			2002002
	Frogeye Leaf Spot (Cercospora so	jina Hara)			
		race 2		n race 3	
		race 6			0 race 4
		J		0 Other (Plea	ise specify)
(Target Spot (Corynespora cassiico	la (Berk. & Curt.) W	[/] ei)		
	Downey Mildew (Peronospora trif	oliopum von mand			
_ <u>C</u>		onorum var, munchi	irica ((Naum.) Syd. ex Gaum)	
0	Powdery Mildew (Microsphaera d	iffusa Cke. & Pk.)			
	Brown Stem Rot (<i>Phialophora gre</i>	gata (Allington & Cl	unbo	ulain) W. Cama)	
0		S (rumigion & Cl	IAIIIDE	riam) W. Gams.)	
0	Stem Canker (Diaporthe phaseolor	rum (Cke. & Ell.) Sac	c. var	. caulivora Athow & Ca	aldwell)
	Pod and Stem Blight (<i>Diaporthe pl</i>	aseolorum (Cke & 1	EU) S:	ace var saiga (I ohmor	1) Wohan)
0			J11.) D.	icc. var. soyue (Denmar	n wenner
0	Purple Seed Stain (Cercospora kiki	uchii (T. Matsu. & T	omoya	isu) Gardener)	
	Rhizoctonia Root Rot (<i>Rhizoctonia</i>	solani Kühn)			
0					
hyto	phthora Root Rot (Phytophthora meg	asperma Drechs. f. s _l	o. glyc	inea (Kuan & Erwin))	
1	race 1 0 race 8	o race 15	0	race 22	
0	race 2 0 race 9	0 race 16	0	race 23	
1	race 3 0 race 10	0 race 17	0	race 24	
, 0	race 4 0 race 11	0 race 18	0	race 25	
0	race 5 0 race 12	0 race 19	0	race 26	
0	race 6 0 race 13	0 race 20	0	Other (Please Specif))
0	race 7 0 race 14	0 race 21			
0	Bud Blight (Tobacco Ringspot Viru	s)			
<u>.</u>					
. 0	Yellow Mosaic (Bean Vellow Mosai	0 T/1-1-0)	1.		

ъ.	DISEASE REACTION	S (Continued)	0 = Not T	ested 1 = Suscept	ible 2 = Resistant	3 = Tolerant
	Cowpea Mosaic (C	Cowpea Chlorot	tic Virus)	역 부모(12.17) 18 10 (1) 1 (12.27) 경기 (13.18) 18 (13.17) 18 (13.17)		
<u> </u>					20020	10067
	Pod Mottle (Bean I	Pod Mottle Vir	us)		E U V E U	/ V Z O J
0	Seed Mottle (Soybe	an Mosaic Vir	us)			
<u> </u>						
Nem	atode					
Sovb	ean Cyst Nematode (He	atarodara alvais	e og Tobib-V			
		cierouciu giyeii	ies ichmone)			
0	race 1	0 race 4	O	race 9		
0	race 2	0 race 5		race 14		
	race 3	race 6	0			
0		0		Other (Please Specify		
	Lance Nematode (H	Ionlolgimus sal				
<u> </u>		opioiuimus con	umous Sner)			
	Southern Root Knot	t Nematode (M	alaidaanna in	ognita (Kofoid & White		
0		Tromatouc (M)	eioiuogyne inc	ognua (Kolola & White	e) Chitwood)	
	Northern Root Knot	t Nematode (M.	eloidoevne ha	nla Chitwood)		
0		,	<i></i>	on Chickood		
	Peanut Root Knot N	ematode (<i>Melo</i>	idogvne arena	ria (Neal) Chitwood)		
	Reniform Nematode	(Rotylenchus r	<i>eniformus</i> Lin	wood & Olivera)		
<u> </u>						
	Javanese Nematode ((Meloidogyne ja	avanica (Treu	b) Chitwood)		
0						
	Other Nematode (Ple	ease Specify)				
0. C. PH	IYSIOLOGICAL RES	PONSES	0 = Not Tes	ited 1 = Susceptib	2 - 7	
			o – Mot Tes	1 – Sascepan	le 2 = Resistant	3 = Tolerant
3	Iron Chlorosis on Ca	Icareous Soil				
·	Phosphorus					
0	I nosphorus		0	Other (Please Specify)		
	Boron					
. .	Aluminum					
	Salt					
0						
	Drought					

MAR-11-2003 TUE 05:59 PM NDSU PLANT	SCIENCES	FAX NO. 7012	318474	P. 23
D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
Mexican Bean Beetle (Epilachna vari	vestis Mulsant)			
O Potato Leaf Hopper (Empoasca fabas	(Harris))		20020	0263
O Other (Please Specify)		41.		
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
0 Metribuzin		. · -	,	
0 Sulfonylurea				
1 Glyphosate			· .	
Glufosinate				
O Sulfentrazone				
Other (Please Specify)		,	:	
F. TRANSGENIC COMPOSITION			······································	
Has the development of the subject variety incl or, the removal of genetic material from the ap If yes, please complete the following informatio	plication variety?			ther than a soybean,
1. Please state the vector's name:				x
2. Please state the vector components:	,		,	
3. Please describe the genetic material success	fully transferred i	into the subject variet	y :	
4. Please describe the insertion protocol:				
* A literature citation(s) explaining the four i the "Transgenic Composition" portion of the	nformation requestis form.	sts above may be an a	cceptable alternat	ive to completion of
G. BIOCHEMICAL MARKERS				

Please describe any biochemical information here, which you believe will be helpful in further describing the subject variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

200200263

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in accordance with the Privacy Act o 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.			
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 2 until certificate is issued (7 U.S.C. 2420	421). Information is held confidential		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME		
NDSU Research Foundation	ND97-1120	1Name to 1		
	ND97-1120	'Nornatto'		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	LE TELEPHONE			
c/o Executive Director	5. TELEPHONE (include area code)	6. FAX (include area code)		
1735 NDSU Research Park Drive	(701) 231–8931	(701) 231-6661		
PO Box 5002 Fargo, ND 58105-5002	7. PVPO NUMBER 200263			
		y		
8. Does the applicant own all rights to the variety? Mark an "X" in approp	oriale block. If no, please explain.	YES NO		
	*	• • • • • • • • • • • • • • • • • • • •		
 Is the applicant (individual or company) a U.S. national or U.S. based of If no, give name of country 	company?	YES NO		
10. Is the applicant the original owner?	NO If no, please answer one of the fo	ollowing:		
a. If original rights to variety were owned by individual(s), is (are) the o	original owner(s) a U.S. national(s)?			
X YES	NO If no, give name of country			
b. If original rights to variety were owned by a company(ies), is(are) th	e original owner(s) a U.S. based company	?		
X YES	NO If no, give name of country			
11. Additional explanation on ownership (if needed, use reverse for extra s	reacht.			
See additional Exhibit E Statement on the	The state of the s	ownership included in		
the application				
	•	*		
PLEASE NOTE:				
lant variety protection can be afforded only to owners (not licensees) who meet c	one of the following criteria:			
If the rights to the variety are owned by the original breeder, that person must be	,			
which affords similar protection to nationals of the U.S. for the same genus and	e à U.S. national, national of a UPOV membi I species.	er country, or national of a country		
If the rights to the variety are owned by the company which employed the origin member country, or owned by nationals of a country which affords similar prot	inal breeder(s), the company must be U.S. basection to nationals of the U.S. for the same g	ced, owned by nationals of a UPOV enus and species.		
If the applicant is an owner who is not the original owner, both the original own	ner and the applicant must meet one of the ab	ove criteria.		
he original breeder/owner may be the individual or company who directed final b	oreeding. See Section 41(a)(2) of the Plant V	ariety Protection Act for definition.		
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection is 0581-0055. The time required to compete this information collection				

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Exhibit E

Statement of the basis of applicant's ownership

Dr. Theodore Helms, an employee of the North Dakota Agricultural Experiment Station and North Dakota State University, is the plant breeder who developed 'NORNATTO', the soybean cultivar for which Plant Variety Protection is hereby sought. The employee by agreement and because of the conditions of the use of the facilities and funds of the North Dakota Agricultural Experiment Station and North Dakota State University has assigned all ownership rights to 'NORNATTO' to the North Dakota Agricultural Experiment Station and North Dakota State University.

North Dakota State University on behalf of the North Dakota Agricultural Experiment Station has assigned ownership to the NDSU Research Foundation. The NDSU Research Foundation is a nonprofit corporation set up to own and manage the intellectual property of North Dakota State University.